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SIGNIFICANT DEVELOPMENTS IN THE INLAND TRANSPORTATION

STATEMS OF THE EUROPEAN SATELLITES DURING 1962

AND

FROSPECTS FOR THE FUTURE

CIA/RR MP 63-33 (OMR Project 31.3752) April 1963

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FOREWORD

The 1962 Memorandum on Inland Transport in the European Satellites presence, as have earlier editions, a summary of the more significant developments in inland transport during the year. It will be noted that some of the 1961 statistics are at slight variance with those shown in the previous edition. These variations result from the incorporation of final official statistics for 1961. Reference to significant developments in international civil air transport have also been included in this Memorandum because a separate memorandum on the international aspects of civil air transport will not be published for 1962.

The Memorandum presents comprehensive statistics on the transportation system in a statistical appendix, but only the more significant developments are mentioned in the text. The information was derived mainly from official statistical publications and announcements of the countries concerned, and reports by observers. The specific sources used are available in the files of this office.

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BIGNIFICANT DEVELOPMENTS IN THE INLAND TRANSPORTATION BYSTEMS OF THE EUROPEAN SATELLITES DURING 1962, AND PROSPECTS FOR THE FUTURE

I. Summary and Significant Developments*

The railroad systems of the European Satellite countries experienced a most troublescene year in 1962, and in none of these countries were planned goals fulfilled. Moreover, with the exception of Rumania, plan failures were freely admitted in official press announcements for the first time in recent years. Although Rumania announced a plan fulfillment of 101 percent in railroad freight traffic, an analysis of the statistics indicates that the original plan announced early in the year was not achieved. The shortfalls in Bulgaria, East Germany and Poland were not large, but Czechoslovakia failed by almost 16 million tons or about 5 percent of the planned total.

The European Satellite economies failed to produce as much as planned for 1962. There were shortfalls in agricultural production as well as in the production of coal, ore, steel and construction materials, and these commodities normally account for more than 60 percent of the total tons carried by the railroads. These failures account to some extent for the lack of significant growth in transportation output, because the production plan is the basis upon which the transportation plan is formulated. On the other hand, there is ample evidence also that the transportation systems and particularly the railroads, failed or were incapable of providing adequate services at all times and places required. Since the railroads provide more than 85 percent of the ton kilometers of freight traffic provided by all modes of inland surface transport, these failures may have inhibited economic growth to some extent.

The European Satellite countries appear to have reached, or are approaching,

The estimates and conclusions in this memorandum represent the best judgment of this office as of 1 April 1963.

the plateau of operating efficiency that can be expected under current managerial practices and with the facilities and equipment available. This is particularly true of the railroad systems because the communist concept of planning and management attempts to plan the exact amount of transport service that will be required to fulfill the demands of planned agricultural and industrial production and international trade, with no provision for reserve strength in personnal or equipment to meet contingencies. This is reflected even in day-to-day operations, and when one industry or geographical area over-fulfills the production plan, the railroads are incapable of providing service to move production significantly in excess of plan; while a surplus of transport capacity develops in another area where production is below plan. This was most noticeable in Czechoslovakia during 1962 where improper planning and mismanagement on the part of both the carriers and the users of transport services resulted in wasteful practices in the utilization of equipment and facilities. For example, loaded freight cars were permitted to stand idle for days because shippers had failed to coordinate shipping schedules with receivers, and receivers could not accept consignments which were not in strict accordance with planned schedules for lack of storage space. As a consequence. a serious shortage of freight cars developed and continued throughout the year.

Similar, although less severe shortcomings were noted throughout all of the European Satellite countries. Too much reliance is being placed upon planned utilization and productivity factors such as increasing the average load per freight car and reducing the turnaround time. And too little effort has been made to acquire and maintain an adequate reserve of rolling stock to meet contingencies which naturally arise when planned production and shipping schedules are not strictly adhered to in accordance with plans.

Although the European Satellite countries produced about 26 thousand freight cars in 1961, they exported well over 30 percent of that production with the major portion of the exports going to the USSR and to countries outside the Bloc. If

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they kept all of their production for internal use at the 1961 rate it would require about 27 years to renew the present inventory of slightly over 700 thousand freight cars. Because of the low average load per car (17 tons) and the short average length of haul (207 kilometers), about 273 terminal operations are required to produce a million ton kilometers in the European Satellites. This may be compared with railroad operations in either the US or the USSR where only about 50 terminal operations would be required because the average load per car is twice that in the European Satellites, and the average length of haul is more than three times as great. The geographic relationship of the producing areas with the consuming centers in the European Satellites, however, precludes the possibility of increasing the average length of haul significantly in the immediate future. Also, as the small 2 axle freight car predominates in current freight car production, It is doubtful that the average load per car will increase significantly for some time to come. Moreover, the useful life of a freight car is dependent upon the number of times it is used, -- i.e., loaded, unloaded, switched, -- rather than upon its age or the distance travelled. It is apparent, therefore, that European Satellite freight cars wear out quickly and require frequent maintenance, so it is evident that more cars will be required if the railroads are to keep pace with sconomic growth because the turnaround time has just about reached the minimum that can be expected under present operating conditions.

At a meeting of the CEMA Transportation Committee in Bucharest in December, a resolution was adopted to establish an international freight car pool within the European Satellites in order to attempt further to achieve better utilization of equipment. Under this plan, each of the railroad systems will contribute a number of freight cars of a specified type and design suitable for long distance international traffic. The cars will be used jointly by all countries, and no car rentals will be charged. Details of this plan have not yet become available. It may be similar, however, to a freight car pool which was established in Western Europe in 1953 under an organization known as Europ. Europ has a freight car pool

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of about 200 thousand cars which are reserved primarily for international traffic, but which may also be used for domestic traffic within a member country. No car remtals are charged. However, cars heaving France for Germany, as an example, are immediately replaced with an equal number of empty or, if possible, loaded Europ cars entering France in the opposite direction. Foreign cars may be used for internal domestic traffic within a member examiny provided the total number in use does not exceed the number contributed to the pool and which are being used in other member countries. A balance is thereby maintained, empty runs are reduced and numbers are prevented from using an excessive number of foreign cars for internal traffic.

When Europ was established, the European Satellite railroads were invited to participate but declined, presumably for political rather than economic reasons. The Europ pool has worked well, and a pool can work equally well in the European Satellites. About 70 to 80 thousand cars will be required to implement the plan in the European Satellites, and the railroad administrations anticipate a 20 percent reduction in empty freight car runs in international traffic. This mechanism is probably the only course currently remaining to the European Satellites to attempt to obtain better utilization of freight cars and to alleviate, to some degree, the shortege.

Satellite countries (except in Albania where no program is underway), are proceeding according to plan. In Czechoslovakia, Hungary, and Poland, priority in electrification is being given to the East-West routes which connect with routes in the USSR. In Bulgaria and Eumania, the electrification currently underway is from North to Ecuth, which strongly implies that eventual connections with the USSR have influenced the electrification program planning. Current production of electric and diasel locamotives in the Engram Satellites is inadequate to supply the types and the quantities needed, and as a consequence, they have been compelled to place orders for motive power in the free world countries of Western Europe.

Construction of the CEMA pipeline is also proceeding according to plan. Both

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the Czechoslovakian and the Hungarian sections are in operation, and over 400 kilometers of the route through Poland to East Germany have been completed. It has been reported that three construction crews are currently working at three sites on the remaining 270 kilometers and that construction will be completed by late 1963. There is no significant new highway construction underway, but reconstruction and surfacing of existing highways is in process in all of these countries.

In spite of plan shortfells, total freight traffic by reilroads, highway, inlend waterway and pipeline increased during 1962, but the rate of increase declined sharply compared with earlier years* and there was an absolute decline in passenger traffic for the third consecutive year.** Civil air transport, still in the formative stage in these countries, accounts for only a negligible portion of the freight traffic, and carried only a negligible tonnage during 1962.***
Civil air passenger traffic is growing slowly,*** but the scattered reports available for analysis suggest that the majority of the travelers are either government officials or special groups sponsored by one or another agency of government. The civil air carriers are seeking expension, however, as evidenced by their negotiations for international air agreements and it is probable that their aircraft will be seen more frequently in various areas of the free world by 1965. A total of 12 new and used aircraft were added to the Emopean Satellite fleets during 1962, while 3 are known to have been lost in crashes. The total inventory at the end of 1962 was only 195 aircraft of various types.*

Prospects for fulfillment of transportation plans during 1963 are extremely doubtful at this time. Reginning in late December of 1962 and extending well into

Appendix, p. 22 and 25, below.

Appendix, p. 31 , below.

Appendix, p. 19 , below.

Appendix, p. 20 , below.
Appendix, p. 21 , below.

March 1963, a severe cold wave and heavy snow struck Eastern Europe, causing a near paralysis in transportation. An unknown but relatively large number of passenger train services were suspended during this period and those trains which did run were up to 24 hours late. Inland waterways were frozen solid. By far the most dramatic aspect of the transportation tie-up was the inability of the railroads to deliver coal from the mines to the consuming centers. Coal stored at the mines froze solid, and explosives were required to loosen it before it could be loaded into freight cars. Strip mining in East Germany all but ceased until troops were called out to loosen the deposits with explosives. After loading into freight cars, the coal froze again and had to be picked out with hand tools. Railroad switches froze, derailments were frequent, and snowdrifts stalled trains for hours. A food shortage developed in the larger cities. Thousands of trucks, including military trucks with military drivers, were pressed into service to move coal and food.

The failure of the transportation system to move adequate supplies of coal forced a reduction in power output, and some steel mills as well as other heavy industries, were forced to curtail production. According to various press reports, the losses suffered by the economies during the first quarter of 1963 may have eliminated any possibility of achieving any significant industrial growth during 1963. Although part of the difficulty in coal transport was in loading and unloading, various press articles have implied that the primary difficulty was with the transportation system and the inability of the railroad system to supply equipment at the times and places needed.

Here again is evidence of mismanagement and poor planning in the transportation systems. The situation further points up the fact that the railroad systems operate with such slim margins of reserves in normal times that almost any emeragency tends to create a serious situation. This leads to speculation on how the transportation systems would cope with a military emergency situation without at least temporarily embargoing all seconomic traffic. The Western European countries

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regularly scheduled air services between the two countries were discontinued. Service between Albania and the European Satellite countries was reduced. Fearing complete air isolation, Albania approached Italy for air transportation agreements in an effort to become independent of the Bloc. These negotiations culminated in the establishment of a once-weekly service between Tirana and Rome by the Italian air carrier Alitalia. This service and a service provided by the Yugoslav Airline provide the only air service connections with non-Bloc countries. The Czechoslovakian, East German and Hungarian air lines operate sporadic flights from their respective capitals to Tirana, usually one weekly round trip.

B. Bulgaria

Early in 1962, electric operation of railroad passenger traffic was inaugurated on the newly electrified 156 kilometers of the route between Sofia and Plovdiv with eight electric locomotives imported from Czechoslovakia. Another route leading from Ruse on the Rumanian border, southward to Gorna Oryakhovitea in the direction of Plovdiv, is also being electrified and completion of the project is expected in 1963. Both of these electrification projects will utilize alternating current.

In addition to the electrification projects, Bulgaria is attempting to modernize the railroad system by dieselizing the more intensively used routes, and to this end, 30 diesel locomotives have been ordered from the Simmering-Graz-Pauker firm in Austria. These are 1,100 horsepower, diesel-hydraulic units worth about 6 million Austrian schillings each.* In spite of the modernization program, Bulgaria imported 35 used steam locomotives from Tugoslavia during 1962. It is probable that these were used as replacements for some of Bulgaria's well-worn and overaged steam locomotives and will fill the gap until such time as electric and diesel units are acquired in sufficient quantity. The 1963 plan calls for a

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Schillings may be converted to US dollars at a rate of exchange of 25.77 schillings to \$1.00. This rate does not necessarily reflect the value of the schilling in terms of the dollar.

9.8 parcent increase over 1962 in tons carried by the railroad. In view of performance over the past five years, this appears to be a goal to shoot at rather than a realistic plan.

Although highway transport by motor vehicle has almost tripled during the past five years, the average length of haul has actually decreased to about 16 kilometers in 1962. This implies that a considerable amount of farm-to-market traffic and feeder services to the railroads (replacing the primitive horse and wagon services) have been motorized. Intercity motor vehicle traffic continues not to be a significant factor in the Bulgarian transportation system.

The Bulgarian Airline received 2 II-18 circraft during 1962, thereby bringing the total inventory of transport aircraft to 17 units. A third II-18, on
order for some time, had not been delivered by the end of December 1962. No changes
in domestic routes and services were observed during 1962, but a new international
service to Moscow via Eucharest and Kiev was inaugurated in November. By 1965,
international routes will be expanded to provide services between Sofia-Paris;
Sofia-Istanbul, Beirut and Begdad; Sofia-Athens, Cairo; and between Sofia and Rome
via Tirana. The Bulgarian Airline has announced plans to expand domestic services
to reach the remote mountainous areas of the country by helicopter. A new Civil
Aviation Law was enacted in December 1962, replacing the law of 1943.

C. Czechozlovekia

The Czechoslovakian railroad system experienced a particularly troublescence year and failed to achieve the planned goal for freight traffic by a considerable amount. Various factors external to railroad management, such as severe weather conditions during the first quarter of 1962, and extatic production where one locality failed to fulfill production goals while another locality over-fulfilled production goals, brought about an extatic demand for service. A surplus of transport equipment existed, therefore, in some areas and a critical shortage developed in others. Moreover, shippers and receivers failed to load and unload freight cars within the prescribed time allowed for such operations, preferring to

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pay high demurrage charges rather than pay overtime wages or employ additional labor. The turnaround time of freight cars which had averaged about 3.99 days in 1961, increased to more than 4.5 days in 1962, and the railroads were incapable of providing all requirements for freight cars at the time and place needed. Inadequate maintenance of track and equipment also contributed to delays and further complicated the situation.

The situation became so serious that the Ministry of Transport came under severe criticism in the press — so severe, in fact, that the Minister of Transport and Communications was dismissed from his post and the ministry reorganized providing for two ministries — one for transportation and the other for communications. All of the difficulties which plagued the reilroad system during 1962 continued through the first quarter of 1963 and have even been compounded by unusually severe weather conditions. Military troops in significant numbers were called out to assist in the clearance of snow on the railroads, but late in March it was announced that the railroads were performing at about 10 percent below planned goals for the first quarter.

The electrification program progressed during 1962 and, at the end of the year, a total of about 1,200 kilometers of route had been electrified. It has been reported that 30 percent of the freight traffic in Czechoslovakia is handled on the electrified portions of the railroad route. If true, traffic density on the 1,200 kilometers of electrified route is about 13 million ton kilometers per route kilometer, or slightly above the average railroad freight traffic density in the USSR. Another 5 percent of the traffic is handled by diesel traction, while the remaining 65 percent is handled by steam.

Electrification of the last section of the Friendship route leading to Ciewna and Tisson on the USSR border was completed, thus providing the first electrified railroad connection between the USSR and the European Satellites. Also completed was the last section of the Usti and Labem route leading to Decin on the

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Rest German border, thus providing an electrified route from the USSR to the Rest Carman border. Another section in the Ostrave region leading to the Polish border is nearing completion.

The newly completed portion of the Friendship pipeline in Czechoslovakia carried about 2.5 million tons during 1962. Although this is only .05 percent of the total traffic carried in Czechoslovakia, it represents about 1,240 trains at 40 tons per car and 50 cars per train, and therefore provided some relief for the reilroad system.

Czechoslovakia acquired 2 II-18 aircraft and 1 Tu-104 during 1962. A Bristol Britannia was also leased from Cubana Airlines for an indefinite period of time, thereby bringing the fleet up to a total of 37 aircraft. Czechoslovakia leads all the European Satellite countries in civil air transport, and accounted for over 43 percent of the passengers carried and almost 70 percent of the freight traffic carried in all of these countries during 1962. Although the volume of air transport has risen rapidly during the past five years, air travel is still used principally by government and business officials and priority freight shipments rather than by the general public or for normal freight traffic. This is particularly true on foreign flights and applies almost completely to flights outside of the Soviet Bloc. Plans for the expansion of the civil air fleet have not been announced and no information is available on plans for the expansion of routes. However, the acquisition in 1962 of three new high performance aircraft* suggests that service on some international routes will be expanded during 1963.

D. Fast Germany

The East German railroads failed to achieve the planned goal by only about 1 million tons during 1962. Although the turnaround time of freight cars was reduced and the average load per car increased, there were numerous instances of a freight car shortage, due in large measure to the failure of shippers and receivers

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For the purpose of this report, a high performance aircraft is defined as a jet or turbo-prop aircraft.

to load and unload expeditiously. A shortage of both switching and main line locomotives is also evident. Press reports state that the type 74 light steam locomotives built in 1914 for Berlin city traffic, are still in use as switching locomotives and will remain indefinitely because of a shortage of more modern equipment. About 15 new electric locomotives from domestic production were delivered to the railroads during 1962, and another 42 are scheduled for delivery in 1963. Faulty transformers on these new locomotives have reportedly caused a number to be withdrawn from service temporarily. About 500 freight cars were imported from Belgium and about 1,000 tank cars have been leased from the USSR to haul crude oil from the Polish-USSR border to East Germany. Electrification of the route south of Leipzig is continuing, and a 24 kilometer section from Altenburg to Crimmitschen was completed during the year, thus bringing the total of electrified route to 797 kilometers including the Berlin S-Bahn routes.

Experiments with gauge changing wheel sets continued, and a train of 40 tank cars has completed 100 thousand kilometers of testing between East Germany and the USSR. Another train of 40 gondola cars carrying one from the USSR is presently undergoing tests. There is no evidence, however, that gauge changing wheel sets are being produced in significant quantity, so it is probable that they are still in the research, testing and development stage.

Although highway transport showed a substantial gain in 1962, the average length of haul of 18 kilometers clearly indicates that it is predominantly a rail feeder service with little significance as an intercity carrier of freight. Inland water transport declined for the fifth consecutive year.

Railroad freight traffic is scheduled to reach 272 million tons in 1963, an increase of almost five percent over 1962. Highway traffic by motor vehicle is scheduled to increase by six percent over 1962. However, the extreme cold wave which started in late December 1962 and continued into the middle of March 1963, may have cancelled all hopes of achieving those goals. In January alone, railroad and highway traffic wave 20 and 25 percent respectively below the 1962

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figure. As late as March 1963, 30 trains destined for West Berlin were stored at West German terminals near Helmstedt because the East German railroads were unable to furnish locomotives to move them. The inland waterways which froze in late December, were not opened for traffic until 13 March 1963. It is probable, therefore, that the 1963 plan will not be fulfilled.

The East German Airlines received 2 Il-18 aircraft during 1962, bringing the total of that model of high performance aircraft up to 5, and a total fleet of all types to 40 aircraft. No significant change in the domestic routes or services was observed during 1962, but new interline agreements were concluded with the North Vietner Airlines, Turkish Airlines, Iraqi Airweys, the Indian Airlines Corporation, and Air Afrique. There is no indication, however, that East German airline services will be inaugurated to those countries in the near future. The Berlin-Warsaw service by East German Airlines was re-established on 5 January 1963, after having been suspended in 1960 for lack of traffic. East German aircraft will provide service on Tuesday and Thursday, while the Polish Airlines will fly the route on the other days of the week, thus providing daily service between Berlin and Warsaw. A new passenger air terminal was opened on 23 July 1962 at the Schoenefeld airport in Berlin. Also completed was a new airport hotel with 12 single and 57 double rooms. Two lanes of a new four-lane highway connecting Schoenefeld with the Berlin Autobahn ring were completed and officially opened to traffic on 6 October 1962. This highway permits travel between the airport and West Berlin without transitting East Berlin.

E. Hungary

The reilroad electrification program in Hungary is proceeding and a short section of 57 kilometer from Fuzesabony to Miscolc was completed during 1962. This electrification is on the main route from Budapest to Satoraljaujhely on the Czechoslovakian border, and only 84 kilometers of the route remain to be electrified. When the last section is completed, the route will connect with the electrified system in Czechoslovakia and thence to the Czechoslovakian -- USER border

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at Cierna nad Tissou. The significance of this route is that it will provide an electrified service from the USSR to Vienna via Budapest, and the route from Budapest to Vienna has been electrified for some time.

At present, the Hungarians are using an electric locomotive produced by the Klement Gottwald Factory at Budapest. However, seven 3,000 horsepower locomotives have been ordered from a consortium of Western European producers, and Hungary has also obtained a license to produce that locomotive domestically. Hungary has also ordered 20 diesel-electric locomotives from Sweden which are scheduled for delivery in early 1963.

The 130 kilometer Hungarian section of the CEMA pipeline was completed during 1962, and the first consignment of crude oil was pumped through the line on 18 September 1962. The Hungarians expect to receive 2.5 to 3 million tons of crude oil through the line in 1963.

The Hungarian Airlines did not acquire any new high performance aircraft during 1962. Moreover, one II-18 was lost in a crash near Paris on 23 November 1962, which resulted in the death of the crew of 8 and 13 passengers. Although a modest gain was recorded in freight transport, passenger traffic declined by about 27 thousand passengers, or about 17 percent compared with 1961. No expansion of civil air transport services was noted during 1962.

F. Poland

Electrification of the railroad system is progressing in Poland. About 170 kilometers were completed in 1962, bringing the total of electrified routes to 1,342 kilometers. The section from Kutno to Konin consisting of 79 kilometers was completed, and electrification is continuing in the direction of Poznan. Also, the 92 kilometer section from Podleze to Debica was completed and electrification is continuing toward Medyka on the USER border. The electrification of the route from Katowice to the Czechoslovakian border is underway, and electrified train operations between Warsaw and Prague will probably be established before the end of 1963. The Polish railroads received 20 electric locomotives

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from the UK during 1962, and are preparing to produce the locomotive domestically under license from the British supplier. Also, 37 electric locomotives were obtained from domestic production during 1962.

The railroad system failed to fulfill the plan by about 4 million tons or about one percent. The Minister of Transportation and Communications stated in January 1963, nevertheless, that 1962 had been a crisis year for the Polish railroads. Unusually beavy snow storms in the first quarter of the year, followed by floods in April and May, so thoroughly disrupted loading and unloading, as well as transport operations, that the railroads were unable to supply adequate services during that period. Moreover, they were unable to make up the loss during the remaining seven months of the year. Transit traffic was about one million tons more than the Polish railroads had planned and prepared for. An inadequate supply of locomotives and rolling stock was felt throughout the year. All of these factors point to the fact that the margin of reserve capacity is much too small to keep page with any fluctuation in demand for transportation service.

The announced plan for railroad traffic in 1963 is 308 million tons on the stendard gauge railroad system. This is an increase of 4.8 percent over the 294 million tons carried in 1962. During the first quarter of 1963, the Polish railroad system experienced unusual difficulties due in part to a sewere cold wave and heavy snow. Drifts up to six feet were reported and all trains were delayed. Many passenger train services were suspended. Even the Warsaw-Berlin express train was running up to 12 hours late on a normal six hour run. The railroads did not have an adequate supply of reserve rolling stock to offset the delays occasioned by adverse weather. As a consequence, coal supplies at power plants and factories dropped to a dangerously low level, thereby slowing production of goods to the point where the entire 1963 production plan for some goods is in jeopardy. It is doubtful that the losses during the first quarter can be overcome during the remainder of the year, so it is probable that the transportation plan vill

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fall far short of the planned goal in 1963.

The Polish Airlines purchased 3 Vickers Viscount 804 turboprop aircraft from the British Aircraft Corporation, all of which were delivered in November and December 1962. However, on 19 December, one of these aircraft crashed as it was about to land at the Checke Airport in Vargaw, killing everyone aboard, including 28 passengers and a crew of five. The Polish civil air fleet now consists of 34 aircraft, of which 5 are high performance aircraft. The latter consists 2 Viscounts and 3 I1-18's.

There was virtually no change in either domestic or international routes during 1962. However, Polish Airlines have announced that the Warsaw-Paris-Attens route will be extended to Cairo early in 1963, and later in the spring it will be extended to New Delhi. A thorough reconstruction of the Okecie Airport in Warsaw is underway. The reconstruction and modernization is designed to enable its airport to handle the largest jet sircraft in use today.

G. Humania

The Rumanian railroad system failed to inifill the 1962 plan by about 5 million tons, about 4 percent. There was no evidence of any serious shortcomings in railroad transport or, for that matter, in the entire transportation system, so it is probable that the 1962 plan was over ambitious and the economy failed to generate the traffic, particularly agricultural traffic, upon which the plan was based.

The rate of growth in rallroad, tamesport during the past three years in more than adequate for successful achievement of the six year plan through 1965. The performance during the past year is only 7.3 percent below the goal planned for 1965, so a nominal increase of about 2.5 percent per year for the three years remaining in the plan will be apple for fulfillment and should be achieved with no difficulty.

The only electrification project in France is on the route between Florenti and Bresov where steep grades restrict the train weights which can be handled by

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steam or diesel locomotives. At present, Rumania is negotiating with firms in Sweden and Switzerland for the purchase of electric locomotives, but no firm orders had been placed by the end of 1962.

Rumania appears to be devoting more effort toward disselization rather than electrification, and during 1962, 35 dissel-electric locomotives were delivered to the railroads. This development is logical in view of the availability of petrolsum products in Rumania. There are now 53 dissel-electric locomotives in Rumania, 47 of which have been produced demostically under a license from a Swiss producer. Rumanian experience since the disselization program started has indicated that 10 dissel-electric locomotives can replace 23 steem locomotives.

Rumania, like all countries in Eastern Europe, experienced considerable difficulty in providing adequate transportation during the first quarter of 1963. A detailed plan for transportation during 1963 has not yet been announced, but it is probable that the plan, when announced, will be scaled downward to compensate for the losses suffered during the first quarter.

Rumania received 2 II-18 sircraft in 1952. However, one II-18 crashed in Cyprus early in the year so the net gain was only one high performance aircraft in 1962. No changes in domestic or intra-Bloc routes and services were observed. A new air agreement was concluded, however, between Rumania and France which provides for the operation of Rumanian and French air transport carriers of passengers, freight and mail between Bucharest and Paris. The Rumanian Airlines has had regularly scheduled flights to Paris for some time. Thus, the present agreement ment merely regularizes existing traffic and, from the Rumanian point of view, enhances Rumanian prestige in international civil air transport. French aircraft are not operating into Rumania at present, although the new agreement permits such operations.

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APPENDIX

STATISTICAL TABLES

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Table 1

European Satellites: Freight Traffic Performance by Major Civil Air Carriers a/
1958-1962

			nd Tons Car				Million Ton Kilometers					
	<u>1958</u>	1959	1960	1961	1962	1958	1959	1960	1961	1962		
Bulgaria	1.150	0.943	0.680	0.772	1.177	0.445	0.422	0.299	0.421	0.947		
Czechoglovakie	9.21 0	11.930	15.300	16.960	23.900	6.840	9.160	13.780	16.470	21.677		
Hungary	0.780	0.980	1.600	1.440	1.696	0.630	0.740	200	1.600	2.278		
Poland	2,780	3,050	3.500	4.050	4.932	2.250	2.610	3.190	3.690	5.255		
Rumania	2.300	3.400	3.300	3-000	3.800	1.390	1.880	1.490	2.050	3.198		
Total	16.220	20.303	24.380	26,222	35-505	11.615	24.812	20.319	24.231	33.550		

a. Excluding East Cermany, for which reliable data are not available.

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Table 2

European Satellites: Pessenger Traffic Performance, by
Major Civil Air Carriers 1958-1962

							Promotion of California company - whether company and the call of				
		1958	Thousand 1959	Passengers 1960	Carried 1961	1962	1958	Million 1959	Passenger 1 1960	Kilometers 1961	1962
Bulgaria		112	148	206	215	268	h h	C4	89		
Czechoslovekie East Germany		408	568	754	760	856	193	269	390	96 456	115 514
Hungary		153 114	181	256	213	300	72 <u>;</u>	96	165	159	223
Poland		132	135 156	152 175	1.58	131	36	48	75	90	93
Rumania		107	120	198	200 1 <i>6</i> 4	225 217	75	94	109	130	146
T	otal	1,026	3 200			E.L.	55	80	86	110	130
			1,308	1,741	1,710	1,997	477	<u>651.</u>	<u>914</u>	1.041	1,221

Table 3 Buropean Satellites: Inventory of Civil Aircraft 31 December 1962 a/

CLI Zinghi Ner Ger (St.) Bey Ner (Lee Cane Cane Cane Ann Ann Ann Ann Ann Ann Ann Ann Ann A	L1-2	11-14	Tu-104A	Convair	Viscount (804)	IL-18	Bristol Britannia	Total
Bulgaria	5	10	0	0		2		17
Czechoslovakia	0	25	<u> </u>	0		6	1 b /	37
Bast Germany	ð	35	o	o		5		40
Hungary	12	1.0	0	G		2		24
Poland	10	15	o	4	2	3		34
<i>R</i> wmenis	15	25	0	0		3	•	43
Total	12	120	_5_		2	51	<u>1</u> b/	195

a. Excluding various liaison and executive typs aircraft used for agricultural and administrative purposes.
 b. Leased for an indefinite period from Cubana Airlines.

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Table 4

Buropean Satellites: Estimated Freight Traffic Ferformance of Modern Inland Transport, in Ton Kilometers a/
1958-1962

untry and Mode of Transportation	1958	1959	ric Ton-Kild	zeters g/	1962	1961/1960	nga 1962/1961 cent)	Share of Each Mode of Transportation, 1962 (Percent)
opean Satellites							A CONTRACTOR OF THE PROPERTY O	Exercise to the second of the
Reilroad Motor Vehicle Inland Water b/ Pireline c/	162.495 16.611 6.711 0.778	172.923 18.748 6.695 0.892	187.008 21.039 7.905 1.019	198.682 23.343 7.779 0.946	210.076 25.622 8.057 2.026	+6.0 +11.1 -1.7 -7.2	+5.7 +9.0 +3.6 +113.5	85.4 10.4 3.2 1.0
Total all modes	186.595	199.258	216.972	230.750	245.781	46.3 	46.5 	100 • Q
Railroad Motor Vehicle Inland Water	0.34 0.234 0	0.046 0.291 0	0.055 0.328 0	0.075 0.378 0	0.076 0.422 0	+36.3 +12.2	*1,3 *11.6	15.3 84.7
Total	0.268	0.337	0.383	0.453	0.498	*18.2	+ 9.9	100.0
serio					www.me.ray.co.re	process because	encentificación a	education of the state of the s
Reilrond Motor Vehicle Inland Water	5.243 1.150 0.3 91	6.289 1.375 0.444	6.981 2. 03 9 0.615	7.447 2.420 0.585	8.194 2.500 0.611	+6. 6 +18.6 -4.9	*6.6 *3.3 *4.4	72.4 22.1 5.5
Total	6.784	8.108	2.635	10,1,52	11-305	+8.4	+8.1	100.0

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Table 4 (Continued)

European Satellites: Estimated Freight Traffic Performance of Modern Inland Transport, in Ton Kilometers a/

	1		ic Ton-Kilo			Char 1961/1960	1962/1961	Share of Each Mode of Transportation, 1962
Country and Mode of Transportation	1958	1959	1960	1961	1962	(Per	cont)	(Percent)
Zzechoslovakia								
Railroad	42.674	44.101	47.407	50.674	52.296	+6.8	+3.2	84.8
Motor Vehicle	3.980	4.780	5.108	5.673	6.370	+11.0	+12+2	10.3
Inland Water	1.784	1.736	1.962	1.899	2.000	-3.3	45.3	3.2
Pipeline	٥	0	0	0	1.000			1.7
Total.	48.438	50.61.7	54.477	58.246	61.666	+6.8	+5.8	100.0
Enst Germany								
Railroad	30.101	31.648	32.860	34-732	37.410	+5.3	+7.7	82.7
Motor Vehicle	4.147	4.622	4.984	5.269	5.653	+7.7	+7.2	12.5
Inland Water	2.398	2.376	2,225	2.202	2.162	-2.3	-1.9	4.8
Total	36.646	38.646	40.096	42.203	45.225	+5.2	47.1	100.0
lung								
Reilroad	10.235	11.694	13.337	13.858	14.587	*3.1	+5.2	3.18
Notor Vehicle	1.000	1.120	1.580	1.689	1.850	+6.9	+9.5	10.3
Inland Water	.857	.889	1.308	1.311	1.377	+ 0.2	+5.0	7.9
Total	12.092	13.703	16.225	16.858	17.814	+3.9	* 5.6	100-0

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Table 4 (Continued)

European Satellites: Estimated Freight Wraffic Performance of Modern Inland Transport, in Ton Rilometers of 1958-1962

country and Mode of Transportation	2000	Billion Meta	ic Ton-Kile	meters s/		Cha 1961/1960	nge 1962/1961	Share of Each Mode of Transportation. 1962
	1958	1959	1960	1961	1962	(Percent)		(Percent)
Poland								
Reilzoed Hotor Vehicle Inland Water	57.190 4.6 0 0 0.696	61-670 5-000 0-639	66.547 5.400 0.904	69.689 6. 00 0 0. 855	73.661 6. 400 0. 814	+4.7 +11.1 -5.5	+5.6 +6.6 -4.8	91.0 7.9 2.1
Total Manie	62.486	67-309	72.851	76.544	80-875		±5.6	1.00.0
Reilroed Motor Vehicle Inland Water Pipeline	17.018 1.500 6.585 0.778	17.475 1.550 0.611 0.892	19.821 1.660 0.865 1.019	22-207 1-914 0-927 0-946	23.852 2.427 1.093 1.026	+12.0 +19.6 +7.1 -7.2	+7,4 26,7 +16.8 +8.4	83.9 8.5 3.8 3.8
Total	19.881	20.528	23.305	25.994	28.398	+11.5	÷9.5	100.0

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a. Including demestic, export, import and transit traffic.
b. Including traffic parformed by European Satellite inland water craft on inland waterways in Western Europe.
c. Fumania only through 1961. Includes Czechoslowskia and Rumania in 1962.

Table 5

European Satellites: Estimated Freight Traffic Performance of Modern Inland Transport in Tons Carried a/
1953-1962

Country and Mode of Transportation	1958	Million & 1959	Metric Tons	Carried 1961	7965	Cha 1961/1960 (Per	nge 1962/1961 cent)	Share of Each Mode of Transportation, 1962 (Percent)
Railroad a/ Motor Veatcle a/ Inland Water Fleet b/ Pipeline c/	827.002 1,119.833 25.189 3.704	865.611 1,295.869 25.115 4.514	931.403 1,473.614 24.970 5.586	977.740 1,642.993 24.301 5.317	1,011.047 1,747.315 24.579 9.407	+4.8 +13.4 -0.3 -4.8	+3.4 +6.34 +1.1 +76.9	36.2 62.6 0.9 0.3
Total all Modes	1,975.728	2,191.136	2.435.773	2,650.351	2,702.348	48.8	55 o 36	100.0
Railroad Motor Vehicle Inland Water	0.566 8 .00 8 0	0.745 10.272 0	0.875 10.278 0	1.201 13.094 0	1.279 15.215 0	+37.2 +16.0	+6.4 +16.1	7.8 92.2
Total Bulgaria	8.574	LLOUY	11.153	14.295	16.494	+28.1	<u>*15.3</u>	100.0
Railroad Motor Vahicle Inland Water	29.724 68.290 1.150	35.134 83.300 1.300	38.409 128.287 1.556	40.545 152.000 1.532	41.518 156.300 1.634	*5.5 *18.4 -1.6	42.4 42.8 46.6	20.6 78.3 0.9
Total.	99.16	119.734	168.252	194.077	199.452	\$15.3 ************************************	42.7	100-0
				- 25 -	÷			www.ma.opu/gradicas

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Table 5 (Continued)

Buropean Satellites: Estimated Freight Traffic Parformance of Modern Inland Transport in Tons Carried e/

ountry and Mode of Transportation zechoslovakia	1958	Million M 1959	1960	Carried 1961	1962	Che 1961/1960 (Per	nge 1962/1961 cent)	Share of Each Mode of Transportation, 1962 (Percent)
Railroad Motor Vehicle Inland Water Pipeline Total	174-353 334-800 3-247 0	180.510 395.100 3.128 0	194.077 428.401 3.530 0	205.695 506.220 3.747 0	208.575 538.110 3.900 2.500	+5.9 +18.1 + 6. 1	+1.4 +6.2 +4.0	27.6 71.4 0.5 0.5
st Germany	512.400	<u>578.738</u>	<u>626.008</u>	715.662	753.085	+14.3	±5.2	100.0
Reilroed Motor Vehicle Inland Water	227.199 226.535 14.863	229.197 256.697 14.478	237.789 270.346 12.633	248.714 286.679 11.944	259.800 306.200 11.400	+4.5 +6.0 -5.5	+4.4 +6.8 -4.6	44.9 53.0
Total	468.597	500.372	520.768	547-337	577.400	<u> +5.1</u>	+5.4	2.1 100.0
Metlroad Motor Vehicle Inland Water	78.517 71.200 1.891	86.500 86.500 2.1 0 4	95.879 121.500 2.385	98.635 128.000 2.355	101.343 134.500 2.456	+2.8 +5.2 -9.2	*2.7 *5.0 *4.2	42.4 56.4
Total	151.608	175.104	219.765	228.990	238.299	+4.1	44.0	1.02 100.0

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Table 5 (Continued)

European Satellites: Estimated Freight Traffic Performance of Modern Inland Transport in Tons Carried e/ 1958-1962

							THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	
Country and Mode of Transportation Poland	1958	Million M 1959	etric Tons	Carried 1961	1962	1961/1960	ange 1962/1961 cent)	Share of Each Mode of Transportation, 1962 (Percent)
Railroad Motor Vehicle Inland Water	250.000 332.000 2.480	264.551 361.000 2.531	286.882 392.000 2.951	297.690 413.600 2.762	308.700 435.200 2.933	+3. ? +5.5 -6.5	*3•3 *5•2 *6•1	41.3 58.2
Total umania	584.480	628.082	681.833	714.052	746.833	+4.7	+4.5	0.5 100.0
Railroad Motor Vehicle Inland Water Pipeline	66.643 79.660 1.558 3.704	68.974 103.000 1.574 5.541	77.492 123.000 1.914 5.586	85.260 143.400 1.961 5.317	89.832 161.800 2.256 6.907	+10.0 +16.5 +2.4 -4.8	+5•3 +12•8 +15•0 +29•9	34.4 62.0 0.9
Total Including domestic, export, impor	150.905	178.089	207.992	235.938	260.795	+13.4	+10.5	2.7

a. Including domestic, export, import and transit traffic as well as a duplication of foreign trade traffic moving in the European Satellites. Tonnage also is duplicated when moved by more than one mode of transportation.

b. Including domestic, export, import and transit traffic as well as traffic carried on European Satellite inland water craft or inland waterways in c. Rumania only through 1961. Includes Czechoslovakia and Rumania in 1962.

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Table 6 Buropean Satellites: Estimated Passenger Traffic Parformance by Railroad and Motor Vebicle Transport in Passenger Kilometers a/

untry and Mode of Transportation	1958	Billion Pag 1959	seenger Kild	<u> 1951</u>	1962	Chan 1961/1960 (Perc	1962/1961	Share Each Mode of Transportation, 198
ropean Satellites				********	and formations	12020	S110/	(Percent)
Reilroad Motor Vehicle	103.484 28.118	101.534 32.940	100.256 36.789	100.512 43.185	101.109 47.816	*0.2 +11.9	*0.5 *10.7	67.8 32-2
Total all Modes	131.602	134.474	137.045	143.697	148.925	44.1	+3.6	100.0
benie				September in the second	Milital advicement any sales	are consigerance-us	dat displays when	Control of the contro
Reilroad Motor Vehicle	0.085 0.125	0.086 0.153	0.090 0.147	0. 0 92 0.149	0.086 0.164	-8.9 +1.3	÷4.8 +10.0	34.4 65.6
Total garia	0.210	0.239	0.237	0.231	0.250	-2.6	#8.2	100.0
Reilroed Motor Vehicle	3.088 1.065	3.243 1.969	3.617 2.735	3.839 3.198	3.701 3.671	+6.1 +13.2	~3.6 +14.4	50. 2 49.8
Total	4-153	5.212	6.352	7-037	7.372	+12.3	+4.6	100,0

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Table 6 (Continued)

European Satellites: Estimated Passenger Traific Performance by Railroad and Motor Vehicle Transport in Passenger Eilometers a/

1958	1959	1960	meters 1961	1962	1961/1960	1962/1961	Share Each Mode of Transportation, 1966 (Percent)

17.369 10.422	18.574 11.279	19.335 12.562	19.978 13.844	21.300 14.900	+3.3 +20.2	*0.6 *7.6	58.5 41.5
27-791	29.853	31.897	33.822	36-200	+6.0	<u> +7.0</u>	100-0
21.399 7.588	21.388 8.851	21.288 3.279	19.540 10.583	17.178 11.200	-8.3 +28.1	-12.1 +6.7	60.5 39.5
28.987	30.239	29.567	30.123	28.378	+1.9	·	100.0
						Manufacture of the Control of the Co	and the state of t
11.839 2.893	12.791 3.398	14.247 4.053	14.766 4.597	15.666 5.136	+3.4 +13.4	+6.0 +11.7	75·3 24·7
14.723	<u> 16.189</u>	18.327	<u> 19.363</u>	20.802	+5.6	+7.4	100.0
	17.369 10.422 27.791 21.399 7.588 28.987	17.369 18.574 10.422 11.279 27.791 29.853 21.399 21.388 7.588 8.851 28.987 30.239 11.839 12.791 2.893 3.398	1958 1959 1960 17,369 18.57h 19.335 10,422 11.279 12.562 27,791 29.863 31.897 21,399 21,388 21,288 7,588 8.351 8.279 28,987 30,239 29.567 11,839 12,791 14,247 2,893 3,398 4,053	17.369 18.574 19.335 19.978 10.422 11.279 12.562 13.844 27.791 29.853 11.897 33.822 21.399 21.388 21.288 19.540 7.588 8.851 5.279 10.583 28.987 30.239 29.567 30.123 11.839 12.791 14.247 14.766 2.893 3.398 4.053 4.597	1958 1959 1960 1961 1962 17.369 18.57h 19.335 19.978 21.300 10.422 11.279 12.562 13.84h 14.900 27.791 29.853 31.807 33.822 36.200 21.399 21.388 21.288 19.540 17.178 7.588 8.351 3.279 10.583 11.200 28.987 30.239 29.567 30.123 28.378 11.839 12.791 14.247 14.766 15.666 2.893 3.398 4.053 4.597 5.136	1958 1959 1960 1961 1962 1961/1960 (Perconstruction of the construction of the constru	17.369 18.574 19.335 19.978 21.300 +3.3 +0.6 10.422 11.279 12.562 13.844 14.900 +10.2 +7.6 27.791 29.853 31.897 33.822 36.200 +6.0 +7.0 21.399 21.388 21.288 19.540 17.178 -8.3 -12.1 7.588 8.851 3.279 10.583 11.200 +28.1 +6.7 28.987 30.239 29.567 30.123 28.378 +1.9 -5.8

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Table 6 (Continued)

European Satellites: Estimated Passenger Traffic Performance by Railroad and Motor Vehicle Transport in Passenger Kilometers a/

untry and Mode of Transportation	1020	Billion Pag	sanger Kile	une teores		Chan 1961/1960	1962/1961	Shere Each Mode of
lond	<u>1958</u>	1959	1960	1961	1962	Parc	ent)	Transportation, 1962
Bailtead Notor Vehicle	38-065 5-250	34.894 6.201	30.942 7.794	30.850 9.124	30.973 10.766	-0.4 +20.1	+0.4 +11.6	74.2 25.8
Total	42.235	41.185	<u>38.536</u>	39.974	41.730	+3.7	delit all	100.0
Religond Noter Vehicle	11.619 875	10.558 0.999	10.737	11.457 1.696	12 .20 5 1.9 7 9	*6.6 *19.0	*5.5 *1(*1	86.0 14.0
Total	12.494	11.557	12.156	13.147	14.184	48.1	47.0	100.0

Table 7

Buropean Satellites: Estimated Passenger Traffic Performance by Railroad and Motor Vehicle Transport in Numbers Carried a/
1958-1962

Country and Mode of Transportation	1958 1959		on Passenger Carried		1962	Che 1961/1960 (<i>Pe</i> r	nge 1962/1961 cent)	Share Each Mode of Transportation, 196 (Percent)	
European Satellites									
Railroad Notor Vehicle	2,892.105 2,040.046	3 ,138.8 34 2 ,463.05 9		3,068.52 0 3,232.039	3,036.169 3,803.120	-1.6 +11.8	-1.1 -17.6	44.3 55. T	
Total	1,932.551	5 ,601.8 93	6,004.261	6,300.559	6,839.289	÷4.9	-9.5	100.0	
lbanie									
Railroei Motor Vehicle	2,398 2,358	2.368 2.574	2,498 2,973	2.317 3.418	2.623 3.845	417.6	013.2 012.4	40.6 59.4	
Total.	4.750	4.942	• 5.477.	5.735	6.468	+4.8	412.7	1.00+0	
Maria Sec									
Reilroad Motor Vehicle	66.984 42.776	71. 465 2 00. 859	78.980 284.719	81.8 00 346 027	79.346 4 07 .620	+3.5 +21.5	+3.5 +17.8	16.3 83.7	
fotal	109.760	272.544	363.699	428.827	486.956	+17.6	+13.8	100.0	
					Ī				

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Table 7 (Continued)

European Satellites: Estimated Passenger Traffic Performance by Railroad and Motor Vehicle Transport in Numbers Carried 6/
1958-1962

untry and Mode of Transportation Schoslovskia	1958	Million 1959	1960	Carried 1961	1962	Che 1961/1960 (Per	nge 1962/1961 cent)	Share Each Mode of Transportation, 1962 (Percent)
Reilroad Motor Vehicle Total	523.538 974.359		1,174.436	1,286.473	1,406.145	+1.2 -9.5	+7.1 +9.3	31.3 68.7
st Germany	1.497.897	1,607.443	1,754.993	1,774.009	2,045.445	+1.0	+15.3	1.00.0
Reilroad Motor Vehicle	980,000 532,000	958.000 611.000	943.000 689.000	831.000 738.000	693.800 992.000	-11.9 ÷12.9	-26.6 +34.4	41.2
Total <u>Cory</u>	1,512.000	1,569.000	1,632.000	1,569.000	1,685.800	-3.9	<u>+5.7</u>	58.8 100.0
Radisroad Motos Vehicle	393.400 216.100	431.700 269.400	₹78.900 332. 3 00	492.200 376.800	522.200 423.200	+2.7 +13.3	+ 6.0	55-2 44.8
Total	<u> 609-300</u>	701.100	811.200	869.000	945.400	+7.1	*12.3 <u>*8.7</u>	44.8 100.0

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Table 7 (Continued)

European Satellites: Estimated Passenger Traffic Performance by Railroad and Motor Vehicle Transport in Numbers Carried a/

micy and Mode of Transportation and	<u>1958</u>	M111100 1950	1960	Cerried 1961	1962	1961/1960	nge 1962/1961 cent)	Share Each Mode of Transportation, 1962 (Percent)
Railroad Motor Vehicle	963.181 231.481	904.572 280.893	816.581 333.760	835.967 401.595	863.000 477.898	42.3 120.3	43.2 *19.0	64.3
anis	1,194.662	1,185,465	1,150.341	1,237.562	1,340.898	÷7.5	±8.3	35.7 100.0
Reilrond Motor Vahicle	232.604 41-378	213.844 48.455	214.800 71.757	237.700 79.726	235.900 92.412	*10.6	-0.8	71.6
Total Including domestic and internation includes multiple contains	273.982	262.299	286,557	317.426	700 770	÷10.7	+15.9 <u>+3.4</u>	28.4 100.0

also includes multiple counting when a passenger is carried by more than one mode of transportation.

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Table 8

European Satellites: Selected Comparative Data on Inland Transport Systems 1962

Mode of Transporation and Unit Railroad	Albania	Bulgaria	Czechoslovakia	East Germany	Hungary	Poland	Rumania	Total e/
Billion metric ton kilometers b/ Country share of total (Percent) Million metric tons carried c/ Country share of total (Percent) Route kilometers Locomotives (Units) Freight cars (Units) Freight traffic density (Million metric ton kilometers per	0.076 0.2 1.279 0.2 169 9 710	8.194 3.9 41.518 4.1 4,151 682 28,000	52.296 24.9 208.575 20.6 13,139 5,199 141,000	37.410 17.8 259.800 25.7 16,174 5,980 149,525	14.587 6.9 101.343 10.0 8,932 2,542 66,750	73.661 35.0 30.700 30.5 26,869 5,888 257,474	23.852 11.3 89.832 8.9 10,981 3,021 61,700	
kilometer of route) Average length of haul (Kilometers) Billion passenger kilometers Million passengers carried Passenger traffic density (Million passenger kilometers per	0.449 60 0.086 2.623	1.972 197 3.701 79.346	3.980 250 21.300 639.300	2.306 144 17.178 693.800	1.633 144 15.666 522.200	2•709 238 30•973 863•000	2.172 265 12.205 235.900	2.611 207 101.109 3,036.169
rotal traffic density (Ton kilometers plus passenger kilometers passenger kilometer	0.509	0.891	1.621	1.062	1.753	1.152	1.111	1.258
hilometer of route)	0.958	2,863	5.601	3.368	3.386	3.861	3.283	3.869
Billion metric ton kilometers	0.422	2.500	6.370	5.653	1.850	6.400	2.427	25,622
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Table 8 (Continued)

European Satellites: Selected Comparative Data on Inland Transport Systems 1962

Mode of Transportation and Unit	Albenie.	Bulgaria	Czechoslovakie	East Germany	Hungary	Poland	Rumania	Total a/
Million metric tons carried Route kilometers Kilometers of paved roads d/ Trucks (Units) e/	15.215 4,600 480 3,500	156.300 27,412 6,190 20,400	538-110 133,000 13,000 100,000	306.200 47,725 12,800 155,000	134.500 29,000 6,880 30,900	435.200 287,788 37,061 138,000	5,150	1,747.315 605,725 81,561 195,800
Inland Water 1/								
Billion matric ton kilometers b/ Million metric tons carried Route kilometers used by powered	0	0.611 1.634	2.000 3.900	2.162 11.400	1.377 2.456	0.814 2.933	1.093 2.256	8. 057 24. 5 79
vessels g/	0							7.940
Pipeline								
Billion metric ton kilometers Million metric tons carried Route kilometers	Negl. Negl.	Negl. Negl. Negl.	1.000 h/ 2.500 h/ 400 j/	Negl. Negl.	Negl. Negl.	Negl. Negl. Negl.		

a. Because of rounding, components may not add to the totals shown. b. Including domestic, export, import, and transit traffic.

c. The total includes a duplication foreign trade traffic moving in the European Satellites as well as a duplication of tonnage when traffic is carried by more than one mode of transportation.

d. A paved road is one that has been graded and surfaced with a water-resistant material or a material that facilitates drainage, including asphalt,

concrete, and cobblestone.
e. Civilian trucks only.

concrete, and complestone.

e. Givilian trucks only.

f. Including traffic performed by European Satellite inland water craft on inland waterways in Western Europe.

Excluding Albania. Only total route length is given to avoid duplicate counting of route distance of waterways used jointly by two countries.

Crude oil imports from USSR only.

i. Includes Czechoslovakian sections only of Friendship pipeline from USSR.

k. Includes Hungarian section only of Friendship pipeline from USSR which was completed in September 1962.

l. Includes 2,380 km of crude oil gathering lines and 760 km of product lines.